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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/664,983	09/15/2003	Donald Pierre Bourgon		4639	
7:	590 04/06/2005		EXAM	INER	
Pierre Bourgon			KIM, TAE JUN		
915 First Street Cornwall, ON			ART UNIT	PAPER NUMBER	
CANADA			3746		
			DATE MAILED: 04/06/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

				- 1.
		Application No.	Applicant(s)	_6
Office Antique O constru		10/664,983	BOURGON, DONALD PIERRE	
	Office Action Summary	Examiner	Art Unit	
		Ted Kim	3746	
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address	
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. s period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period rer to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
	Responsive to communication(s) filed on <u>09 Fe</u> This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disposit	ion of Claims			
5)□ 6)⊠ 7)□	Claim(s) <u>1-8</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-8</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or		•	
Applicati	ion Papers			
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>09 February 2004</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the oath or declaration is objected to by the Ex	e: a) \square accepted or b) \square objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority (ınder 35 U.S.C. § 119			
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachmen	• •			
2) Notic 3) Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa		

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DETAILED ACTION

Drawings

1. The informal drawings of 02/09/2004 are not of sufficient quality to permit ready reproduction. Furthermore, the figure labels obstruct portions of the figures and should be not be placed in the middle of a figure but to the top, side, or bottom. Accordingly, replacement drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to this Office action. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action.

Specification

2. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or

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REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)

- (e) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) BRIEF SUMMARY OF THE INVENTION.
- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S). Note this section is required and completely missing any description of Figures 1-4
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (j) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (k) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 4. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Claims 1-8 are rejected as failing to define the invention in the manner required by 35 U.S.C. 112, second paragraph.

The claim(s) are narrative in form and replete with indefinite and functional or operational language. The structure which goes to make up the device must be clearly

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and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. The claim(s) must be in one sentence form only. Note the format of the claims in the patent(s) cited.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by CA 2,282,182 or CA 2299746. Applicant's previously filed Canadian patent applications published 2/25/2001 and 08/22/2002 respectively disclose the catalytic coating of the surfaces of the IC engine and Gas turbine engine with platinum catalyst. All the results of the "claims" are inherently performed or taught by these patent publications.
- 8. In all of the following references, the presence of the catalyst will perform the functions "claimed" by applicant including: reducing the activation energy, increasing the rate of combustion, reducing "missing" or "flameout", increasing engine mean effective pressure, increasing power output, increasing thermal efficiency, cleaner exhaust gases, allowing for greater ignition advance or higher compression ratio, etc. These are inherent capabilities of using the catalyst with the IC engine or Gas turbine engine.

9. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Totman (4,530,340), Bradstreet et al (2,978,360), Brass et al (4,612,880), Hagino (4,577,611). Each of these references teaches a catalytic liner on all the internal combustion engine components.

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Totman (4,530,340) teaches catalytic liner 12, 18.

Brass et al teach a catalytic coating on the combustion chamber surfaces (see col. 5, lines 56-col. 6, lines 12).

Bradstreet teaches a catalytic coating 12, 13, 14, 15 (see col. 5, lines 9-15).

Hagino teaches a catalytic coating 7 on the combustion chamber surfaces.

10. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by any of Weil et al (5,355,668), Hums et al (5,946,917), Correa (5,460,002), and Pfefferle et al (4,603,547).

Weil et al teach a catalytic coating on any and all gas turbine components including combustor and turbine in the flow path (col. 3, lines 28-58). This will inherently reduce relighting in case of flameout.

Hums et al teach a catalytic coating 12 on the gas turbine combustor. This will inherently reduce relighting in case of flameout.

Correa teaches a catalytic coating 26 on the gas turbine combustor. This will inherently reduce relighting in case of flameout.

Pfefferle et al teach a catalytic coating 22 on the gas turbine combustor. This will inherently reduce relighting in case of flameout.

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Claim Rejections - 35 USC § 103

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 12. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over any of Hums et al (5,946,917), Correa (5,460,002), Totman (4,530,340), Bradstreet et al (2,978,360), Brass et al (4,612,880), and in view of any of Hagino (4,577,611), Weil (5,355,668), CA 2,282,182 and CA 2299746. The claims are unclear as to what extent they claim the use of a platinum catalyst (appears only in claim 1 and not the rest). Hums et al (5,946,917), Correa (5,460,002), Totman (4,530,340), Bradstreet et al (2,978,360), Brass et al (4,612,880) all teach a catalytic coating on the combustor surfaces. To the extent which platinum is not disclosed, Hagino (4,577,611), Weil (5,355,668), CA 2,282,182 and CA 2299746 all explicitly disclose the use of platinum catalysts for either the IC engine or gas turbine engine. It would have been obvious to one of ordinary skill in the art to employ platinum as the catalyst, as a well known catalyst used in catalytic combustion and known for its strength and/or longevity, and/or suitability for this application.
- 13. An examination of this application reveals that applicant is unfamiliar with patent prosecution procedure. While an inventor may prosecute the application, lack of skill in

this field usually acts as a liability in affording the maximum protection for the invention disclosed. Applicant is advised to secure the services of a registered patent attorney or agent to prosecute the application, since the value of a patent is largely dependent upon skilled preparation and prosecution. The Office cannot aid in selecting an attorney or agent.

Applicant is advised of the availability of the publication "Attorneys and Agents Registered to Practice Before the U.S. Patent and Trademark Office." This publication is for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Contact Information

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Ted Kim whose telephone number is 571-272-4829. The Examiner can be reached on regular business hours before 5:00 pm, Monday to Thursday and every other Friday.

The fax numbers for the organization where this application is assigned are 703-872-9306 for Regular faxes and 703-872-9306 for After Final faxes.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler, can be reached on 571-272-4834.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist of Technology Center 3700, whose

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telephone number is 703-308-0861. General inquiries can also be directed to the Patents Assistance Center whose telephone number is 800-786-9199. Furthermore, a variety of online resources are available at http://www.uspto.gov/main/patents.htm

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